

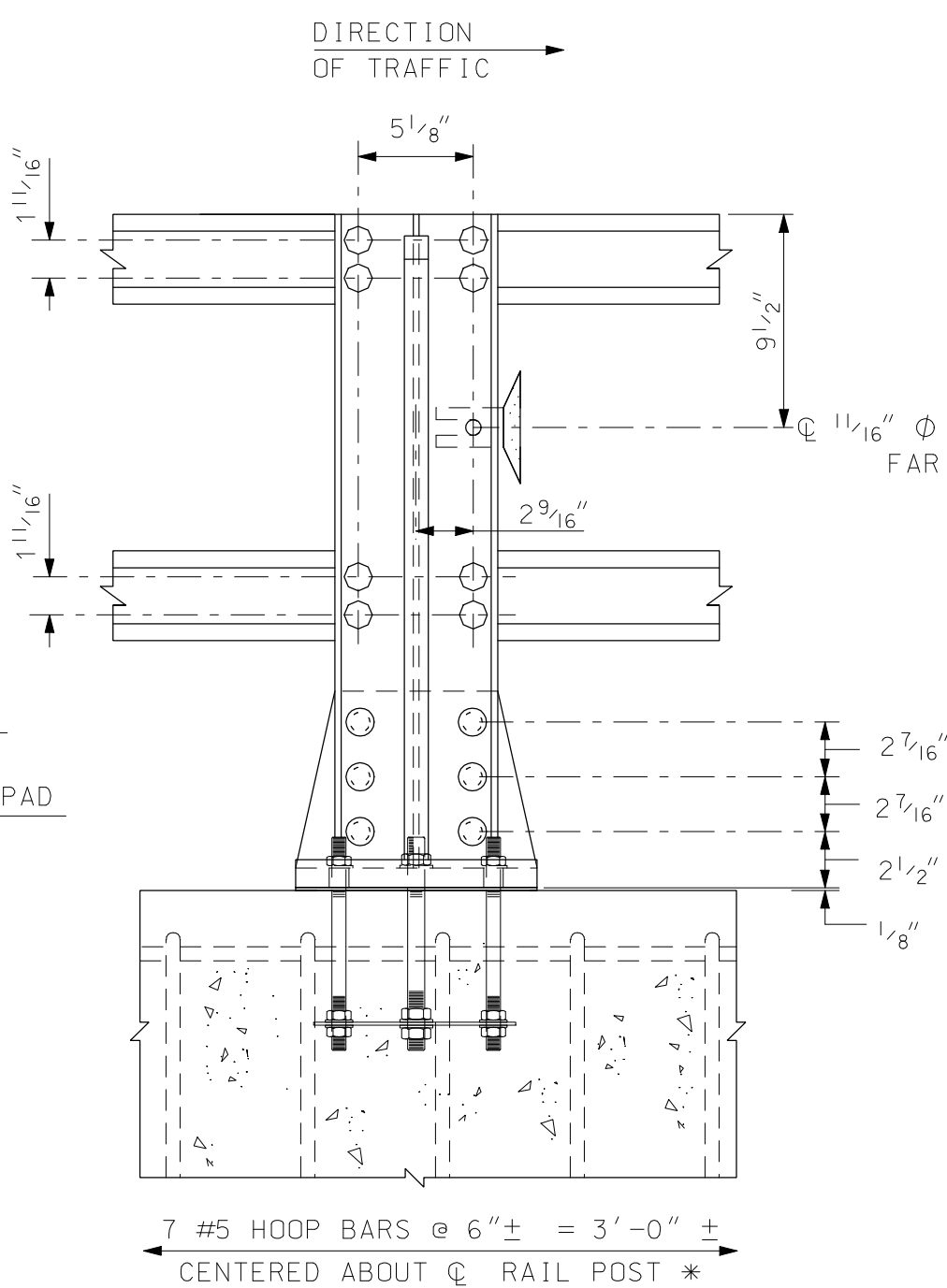
\* NOTE: RAIL HEIGHTS ARE GIVEN FOR USE WITH A SIDEWALK. WITH A BRUSH CURB, USE ( ).

\* REINFORCING CAPACITY SHALL MEET OR EXCEED THAT SHOWN

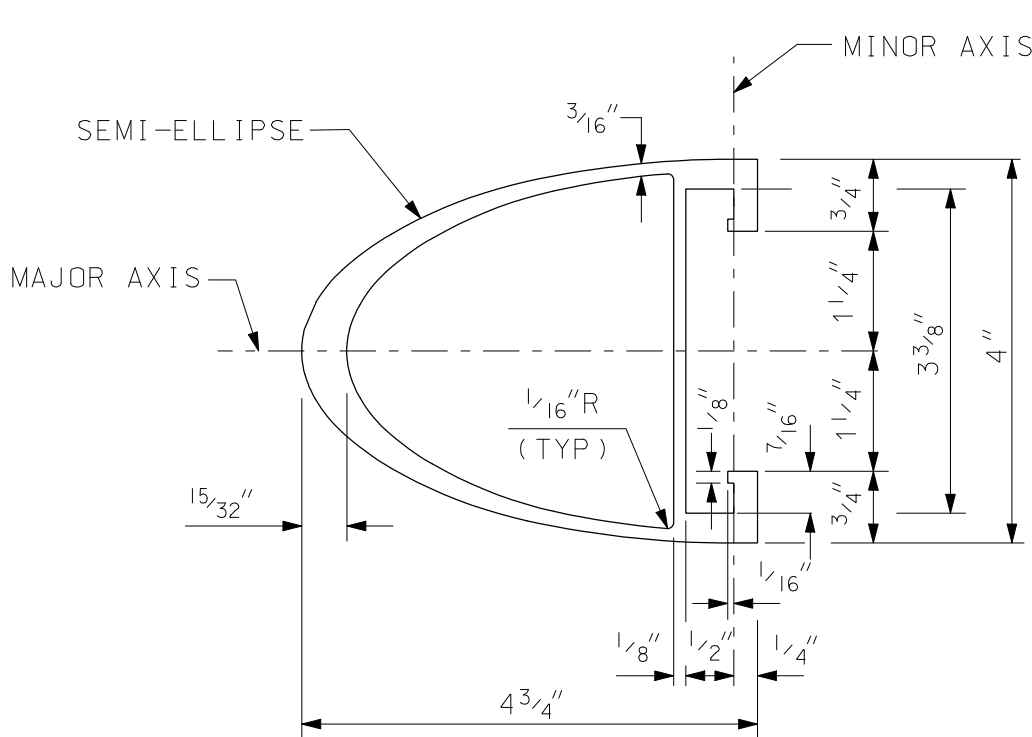
SECTION VIEW

POST ASSEMBLY

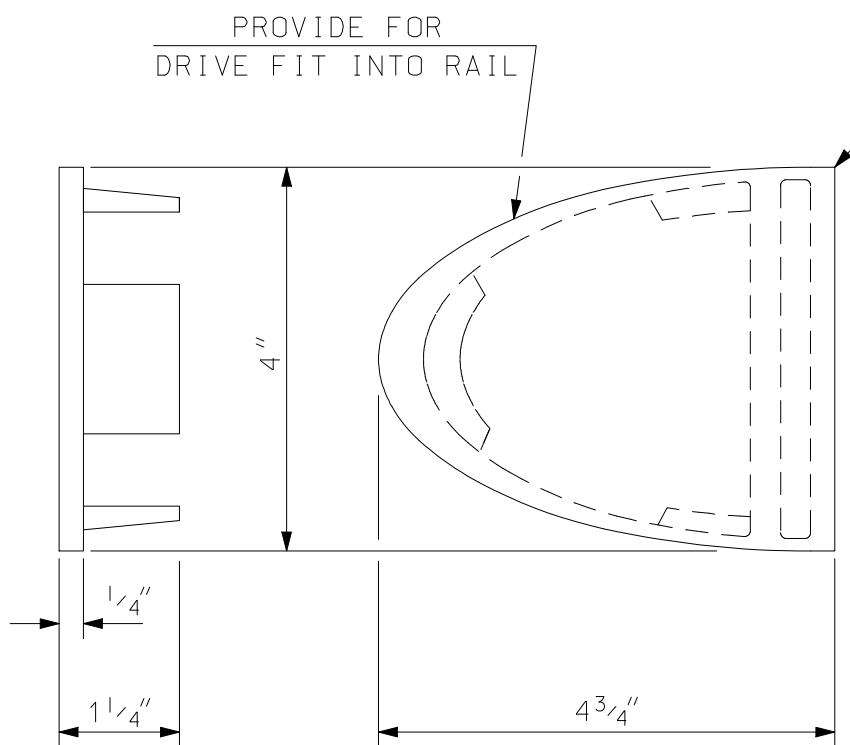
SCALE: 1 1/2" = 1'-0"



BACK ELEVATION VIEW

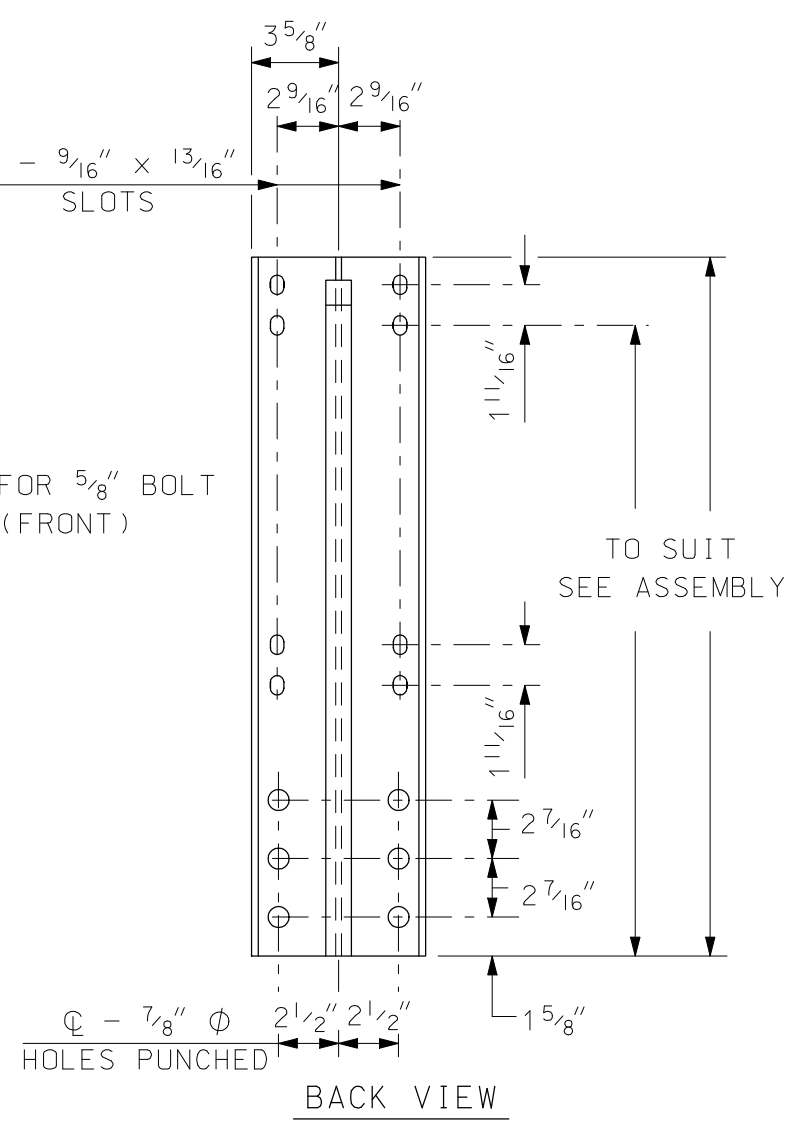


RAIL SECTION HALF SIZE

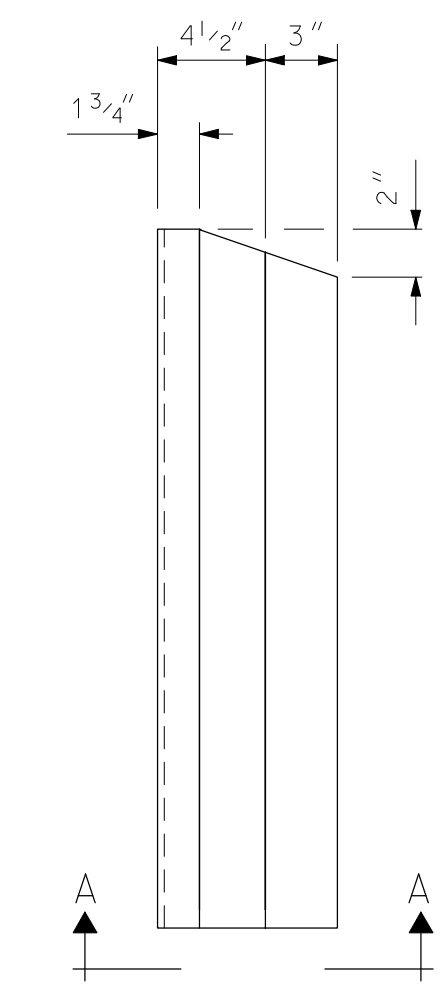


RAIL END CAP HALF SIZE

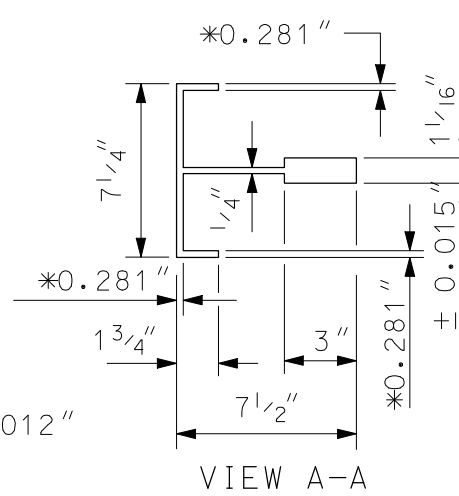
ASTM B26 SAND CAST ALUMINUM, ALLOY SG 70A-F (ALUMINUM ASSOCIATION ALLOY DESIGNATION A356-F)



BACK VIEW

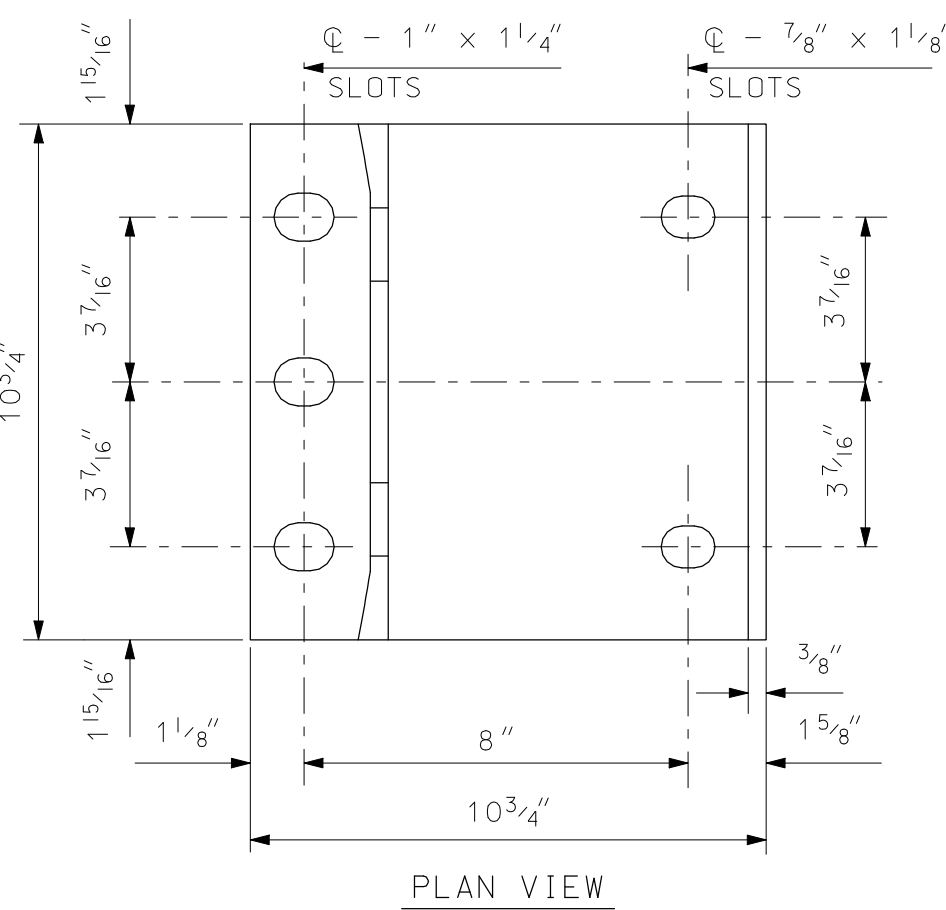


SIDE VIEW

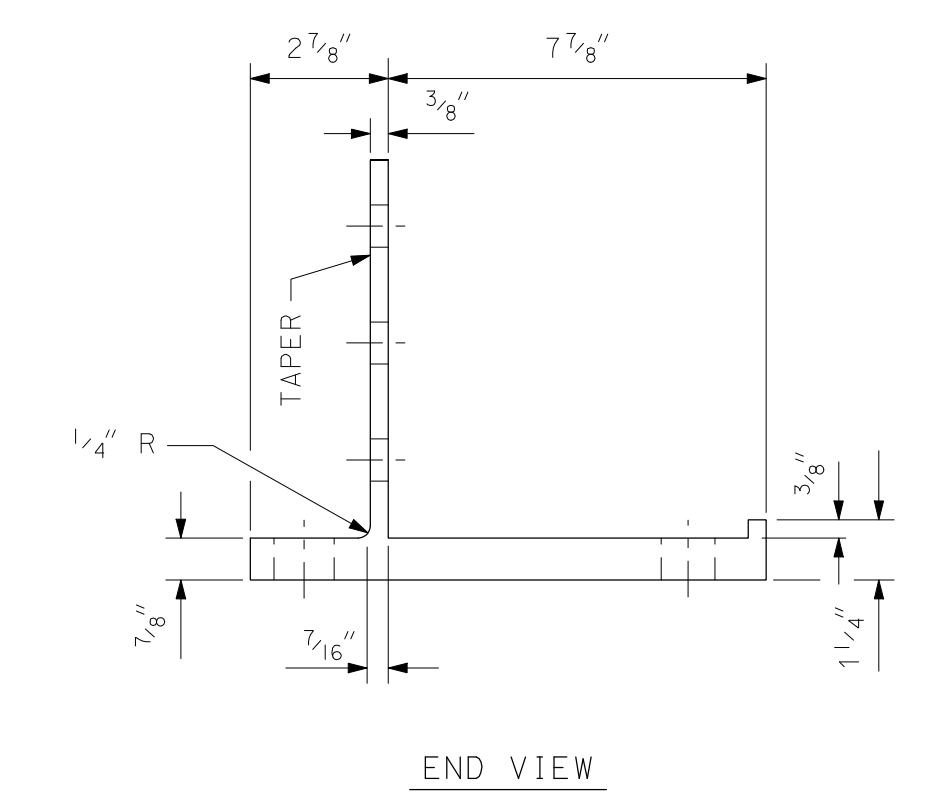


POST ASSEMBLY

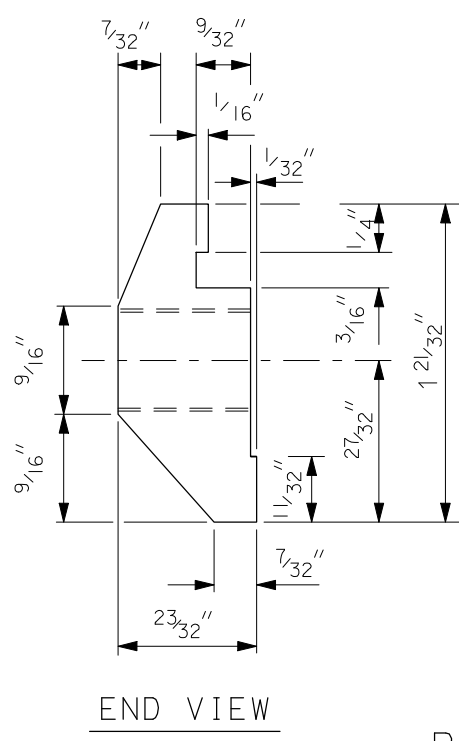
SCALE: 1 1/2" = 1'-0"



PLAN VIEW

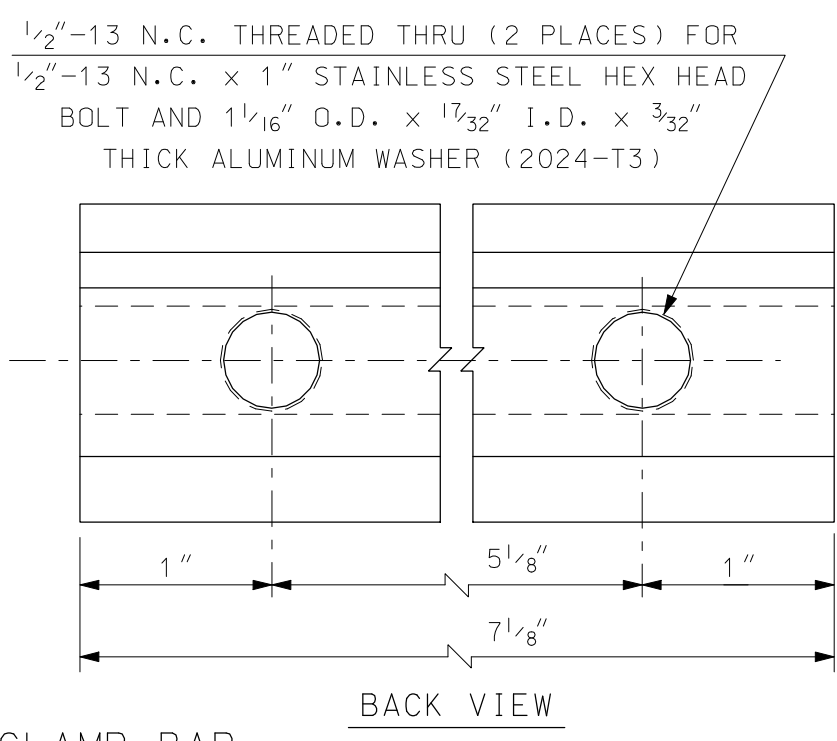


END VIEW

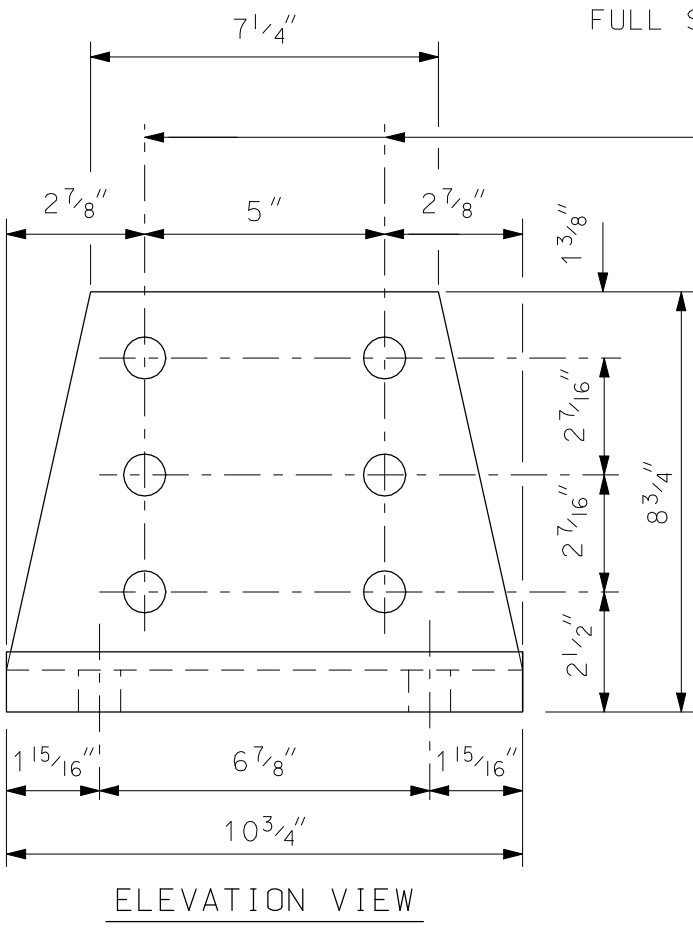


END VIEW

RAIL CLAMP BAR FULL SIZE



BACK VIEW



ELEVATION VIEW

POST BASE DETAILS

SCALE: 3" = 1'-0"

### RAIL NOTES:

- POSTS SHALL BE NORMAL TO FINISHED GRADE.
- THREADS FOR ANCHOR BOLTS MAY BE ROLLED OR CUT. IF CUT THREADS ARE USED, BOLT DIAMETER SHALL NOT BE LESS THAN NOMINAL DIAMETER. IF ROLLED THREADS ARE USED, BOLT DIAMETER SHALL NOT BE LESS THAN ROOT DIAMETER OF THREADS.
- JOINTS IN RAIL LENGTH SHALL BE SPICED AS DETAILED.
- ENDS OF TUBE SECTIONS SHALL BE SAWED OR MILLED.
- CUT ENDS SHALL BE TRUE AND SMOOTH.
- EACH RAIL SECTION SHALL BE ATTACHED TO A MINIMUM OF FOUR (4) POSTS.
- GRIND ALL EDGES SMOOTH.

### MATERIAL:

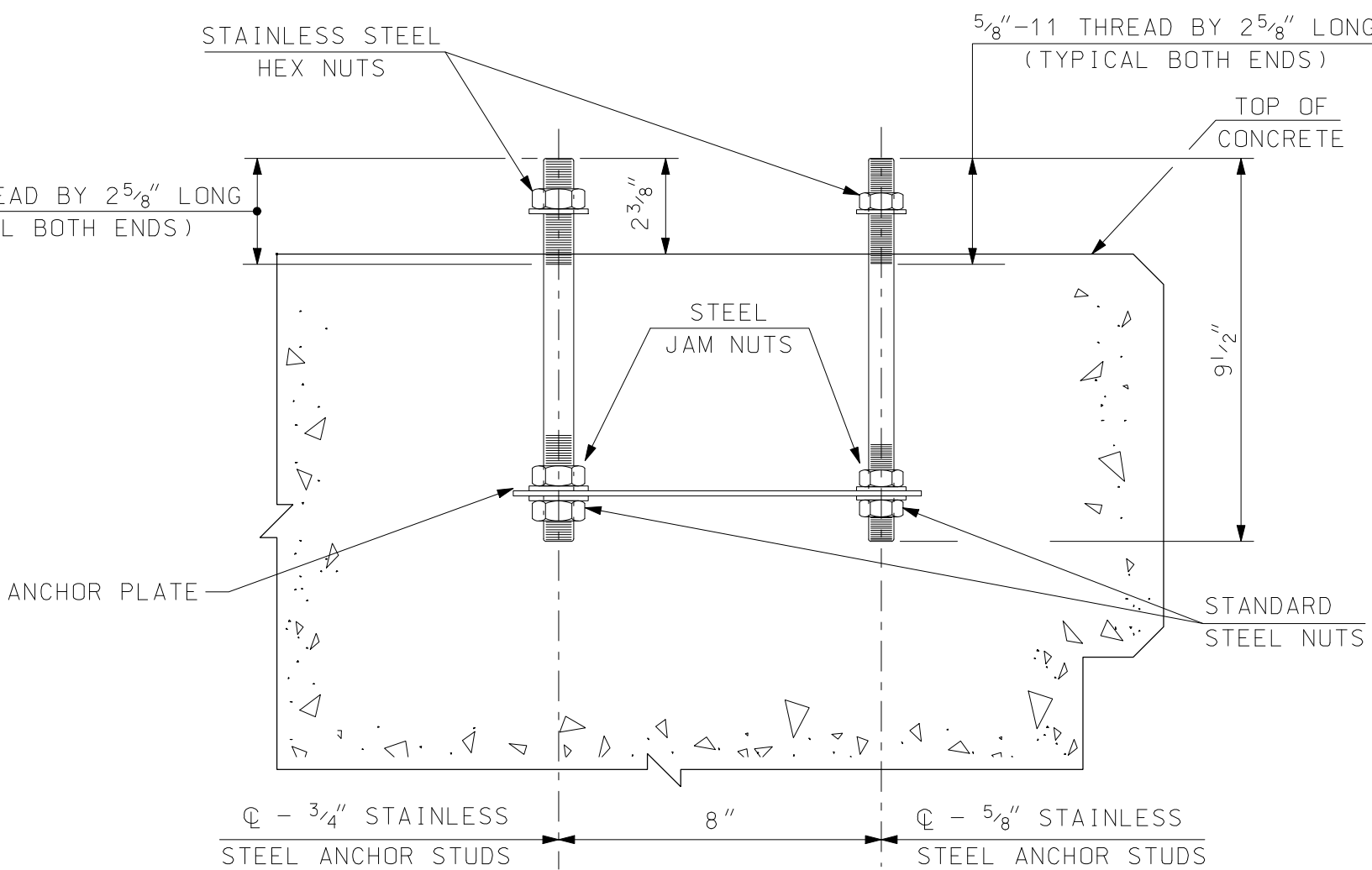
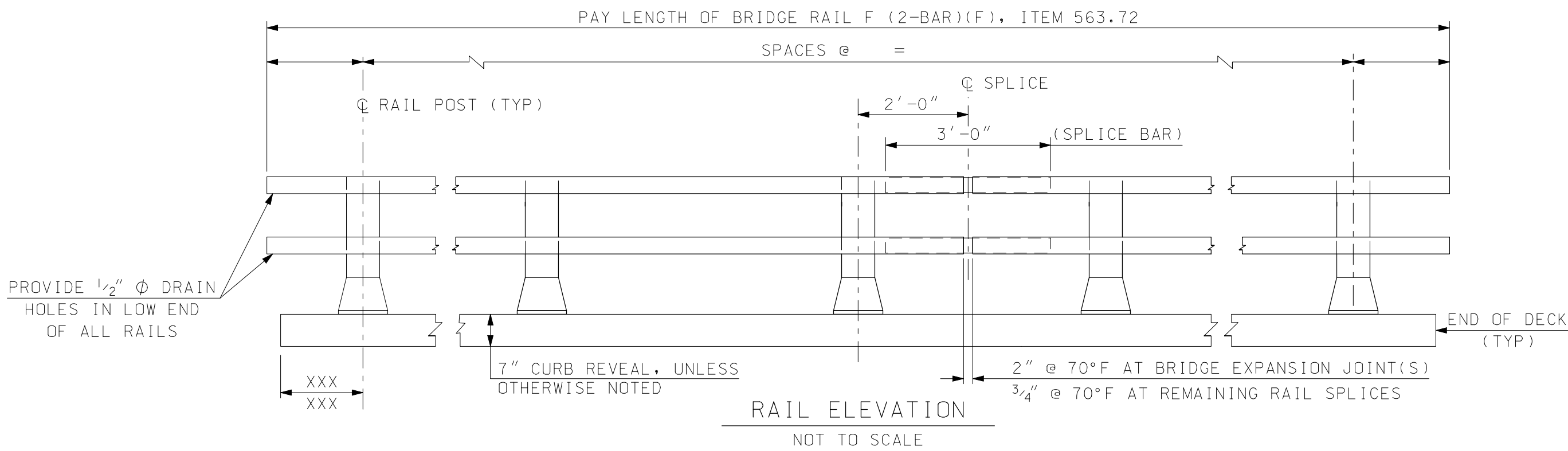
- ALUMINUM EXTRUSIONS (POSTS, BASES, RAILS, SPLICE BARS, PINS AND CLAMP BARS) SHALL BE ASTM B221, ALLOY 6061-T6 OR ALLOY 6351-T5 (MIN. 10% ELONGATION).
- STAINLESS STEEL ANCHOR STUDS, HEX HEAD BOLTS AND HEX NUTS (TYPE 302) SHALL BE ASTM A276, TYPE 430 MOD OR TYPE 304 MOD, (100,000 PSI AND 15% ELONGATION).
- STEEL EMBEDDED JAM AND HEX NUTS SHALL BE ASTM A563 GRADE A OR BETTER.
- ALUMINUM WASHERS SHALL BE ASTM B209, ALLOY 2024-T3 ALCLAD.
- PREFORMED ELASTOMERIC BEARING PAD SHALL MEET REQUIREMENTS OF AASHTO M251.
- RETROREFLECTIVE DELINEATORS, FIELD DRILLING OF POSTS, STAINLESS STEEL (TYPE 304) BOLTS, NUTS & WASHERS SHALL BE SUBSIDIARY TO ITEM 563.72. SEE STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (DL-1) FOR ADDITION DETAILS AND SPACING.

### ANCHOR ASSEMBLY NOTES:

- 3/4" AND 5/8" AMERICAN STANDARD FINISHED HEXAGON STEEL NUTS ON BOTTOM OF ANCHOR ASSEMBLY, 3/4" AND 5/8" AMERICAN STANDARD FINISHED HEXAGON STEEL JAM NUTS ON TOP OF ANCHOR PLATE.
- 3/4" AND 5/8" STAINLESS STEEL HEXAGON NUTS ON TOP ENDS OF BOLTS WITH CLASS 2B THREADS. 13/16" I.D., 2" O.D., 1/8" THICK ALUMINUM WASHERS UNDER NUTS ON TOP. ALL NUTS SHALL COMPLY WITH AMERICAN HEXAGON ANSI SPEC. B18.2. STAINLESS STEEL HEXAGON NUTS SHALL HAVE FULL THREADS.

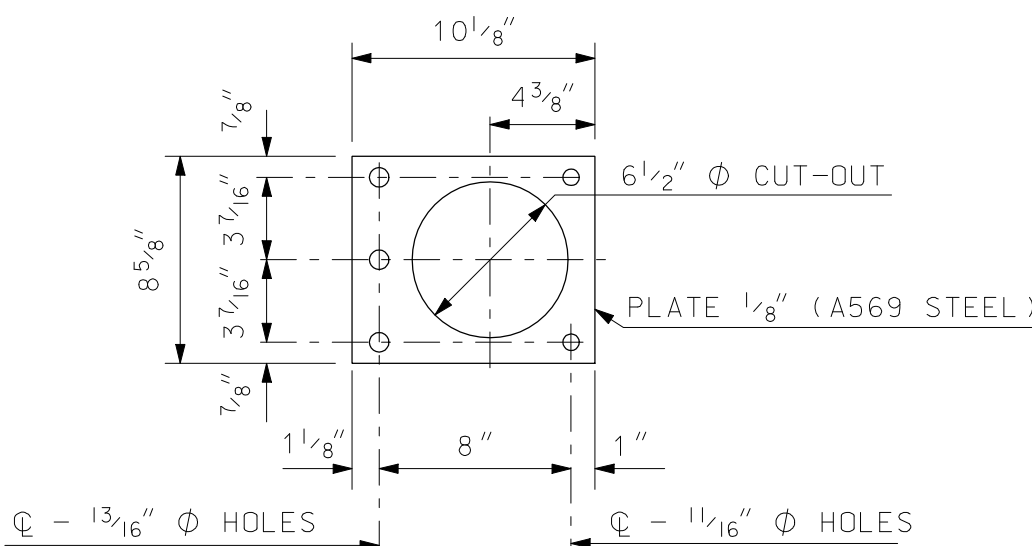
### SPLICE BAR DETAILS:

- SEE STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (BR-R3) FOR DETAILS AND NOTES.



POST ANCHOR ASSEMBLY

SCALE: 3" = 1'-0"



ANCHOR PLATE

SCALE: 1 1/2" = 1'-0"

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
English/AL-RAIL	2BAR	AS NOTED

STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN			BRIDGE NO.				STATE PROJECT				
LOCATION											
BRIDGE RAIL DETAILS (2-BAR ALUMINUM)								BRIDGE SHEET			
REVISIONS AFTER PROPOSAL			BY		DATE		BY		DATE		
			DESIGNED	NHDOT			CHECKED	NHDOT	1/90	FILE NUMBER	
			DRAWN	GMC	2/06		CHECKED	PJP	2/06		
			QUANTITIES				CHECKED				
			ISSUE DATE			FEDERAL PROJECT NO.			SHEET NO.		TOTAL SHEETS
			REV. DATE		2/21/06						